

Clean Copy of Amended Claims:

Please cancel claims 10 and 12-33.

Please amend claims 6 and 8.

Please add new claims 34-46 as shown below:

6. (AMENDED) The corn plant of claim 2, wherein said plant is ~~male-sterile~~ detasseled.

8. (AMENDED) ~~A~~ The tissue culture according to claim 7, the cells or protoplasts ~~of the tissue culture being from~~ said cells having been isolated from a tissue selected from the group consisting of protoplast and calli, wherein the regenerable cells are derived from meristematic cells, leaves, pollen, embryo, roots, root tips, anthers, silks, flowers, kernels, ears, cobs, husks, and stalks.

34. (NEW) A hybrid corn seed wherein fifty percent of its genetic material originates from the pollen of claim 3.

35. (NEW) A hybrid corn seed wherein fifty percent of its genetic material originates from the ovule of claim 4.

36. (NEW) A method for producing a transgenic corn plant comprising transforming the corn plant of claim 2 with a transgene wherein the transgene confers a characteristic selected from the group consisting of: herbicide resistance, insect resistance, resistance to bacterial disease, resistance to fungal disease, resistance to viral disease, male sterility and corn endosperm with improved nutritional quality.

37. (NEW) A transgenic corn plant produced by the method of claim 36.


38. (NEW) A method of producing a male sterile corn plant comprising transforming the corn plant of claim 2 with a transgene that confers male sterility.

39. (NEW) A male sterile corn plant produced by the method of claim 38.

40. (NEW) A method of producing an herbicide resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers herbicide resistance.

41. (NEW) A herbicide resistant corn plant produced by the method of claim 40.

42. (NEW) A method of producing an insect resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers insect resistance.

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43. (NEW) An insect resistant corn plant produced by the method of claim 42.
44. (NEW) A method of producing a disease resistant corn plant comprising transforming the corn plant of claim 2 with a transgene that confers disease resistance.
45. (NEW) A disease resistant corn plant produced by the method of claim 44.
46. (NEW) The corn plant of claim 2, further comprising a single gene conversion where the gene confers a characteristic selected from the group consisting of: male sterility, herbicide resistance, insect resistance, resistance to bacterial disease, resistance to fungal disease, resistance to viral disease and corn endosperm quality.